

Williams®

16-3007-103
September, 1982

Moon Patrol

DRAWING SET

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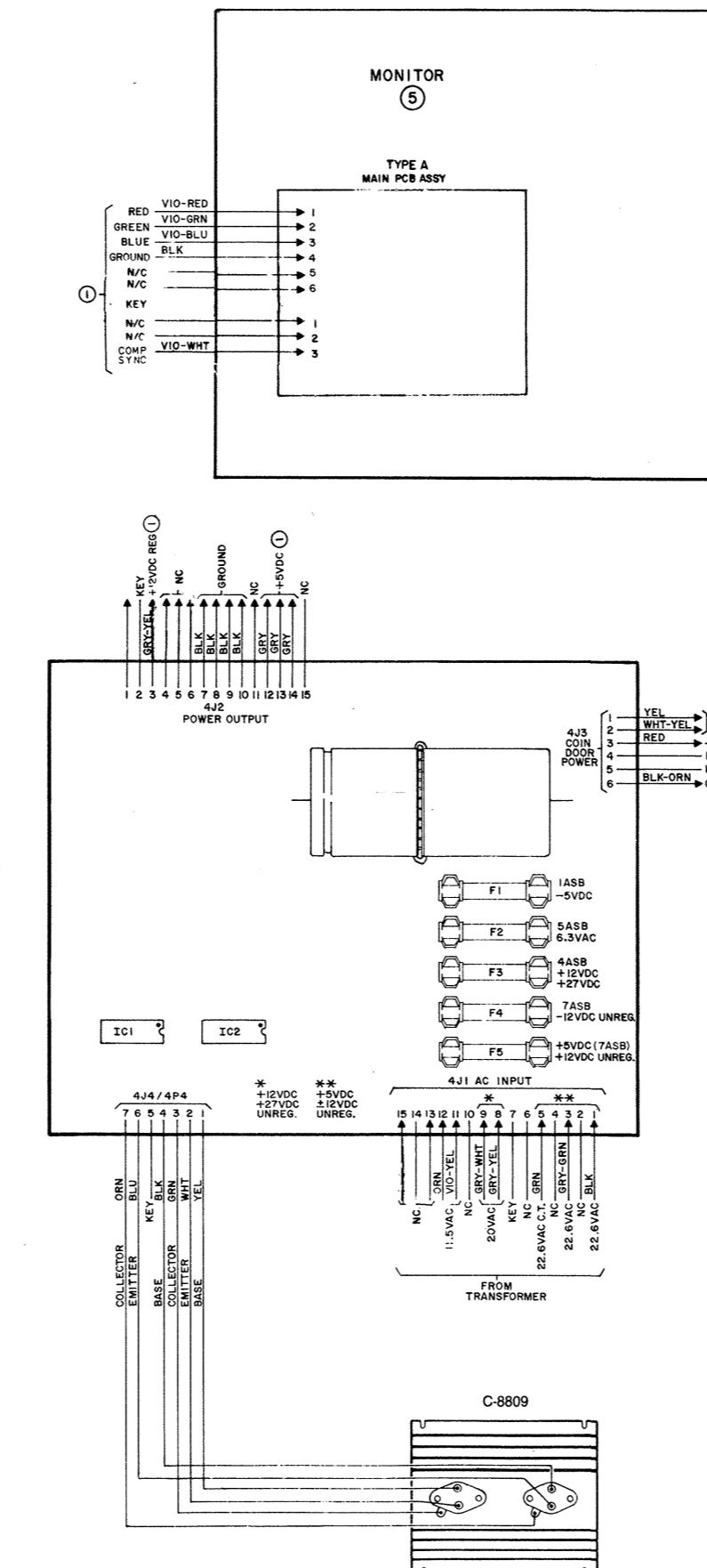
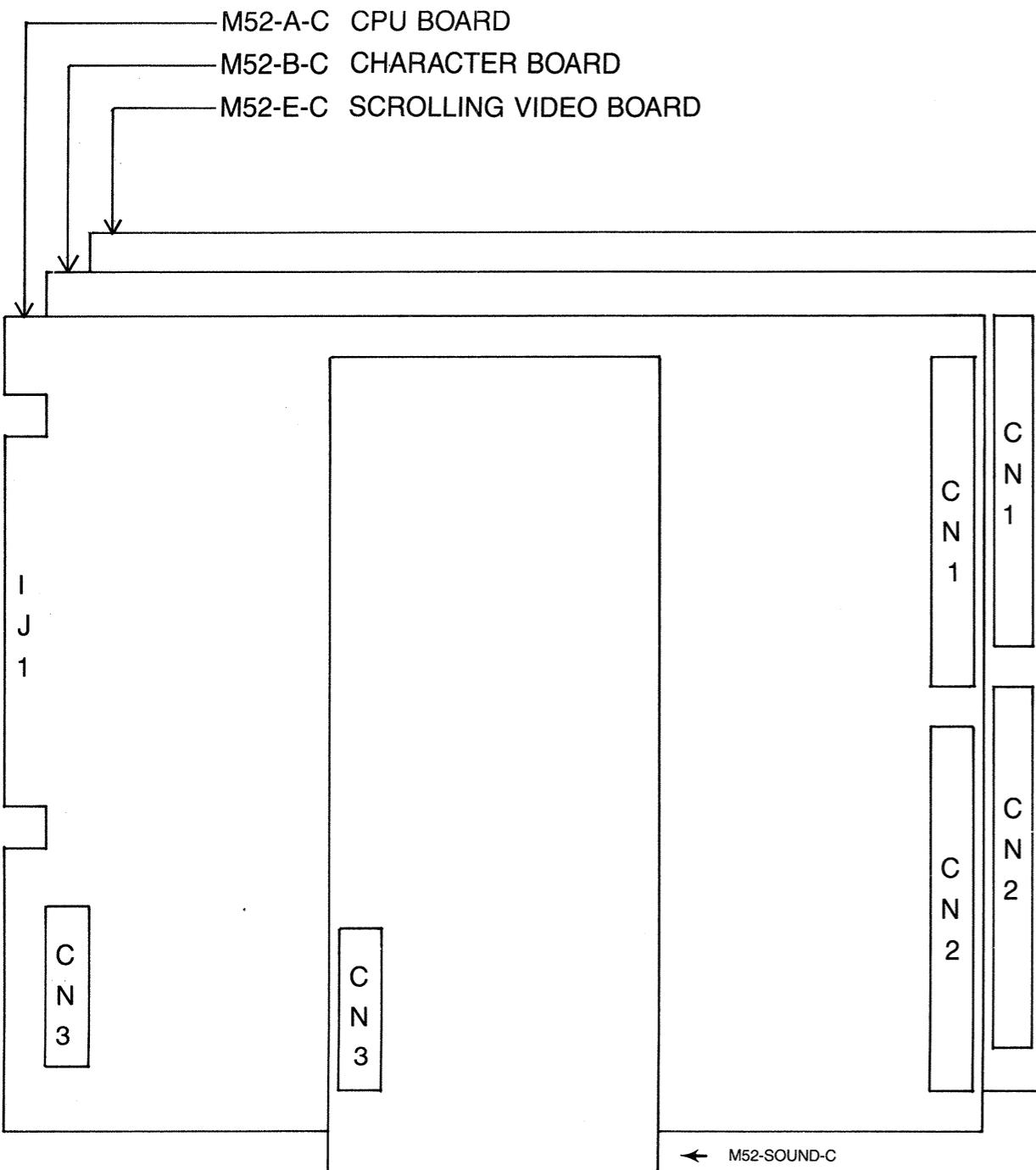


Williams®
ELECTRONICS, INC.

3401 N. California Ave., Chicago, IL 60618

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C-8809 heat sink as

Part No.	Description
5162-09425	2N6057, Tra
5161-09552	2N3055, Tra
5705-09684	Heat Sink
5700-09445	Socket, TO3
5701-09562	Thermal Pac
4006-01003-10	Machine Sc

DIP SWITCH SETTINGS

DIP SWITCH N

ADJUSTMENT	OPTIONS	SWITCH NUMBER							
		1	2	3	4	5	6	7	8
*RECOMMENDED SETTINGS		ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
†COIN MODE 1	2 PLAYS/1 COIN 3 PLAYS/1 COIN 4 PLAYS/1 COIN					OFF ON OFF	OFF OFF ON	OFF OFF OFF	ON ON ON
	5 PLAYS/1 COIN 6 PLAYS/1 COIN *1 PLAY/1 COIN					ON OFF OFF	ON OFF OFF	OFF ON OFF	ON ON OFF
	1 PLAY/2 COINS 1 PLAY/3 COINS 1 PLAY/4 COINS					ON OFF ON	OFF ON ON	OFF OFF OFF	OFF OFF OFF
	1 PLAY/5 COINS 1 PLAY/6 COINS FREE PLAY					OFF ON ON	OFF OFF ON	ON ON ON	OFF OFF ON
†COIN MODE 2	1 PLAY/1 COIN 1 PLAY/2 COINS 1 PLAY/3 COINS					OFF ON OFF	OFF OFF ON		
	FREE PLAY					ON	ON		
	2 PLAYS/1 COIN 3 PLAYS/1 COIN 5 PLAYS/1 COIN 6 PLAYS/1 COIN							OFF ON OFF ON	OFF OFF ON ON
# PATROL CARS	5 PATROL CARS *4 PATROL CARS 3 PATROL CARS 2 PATROL CARS	OFF ON OFF ON	OFF OFF ON ON						
ADDITIONAL CAR AT:	*10,000/30,000/50,000 20,000/40,000/60,000 10,000 ONLY NO EXTENDED PLAY			OFF ON OFF ON	OFF OFF ON ON				

DIP SWITCH N

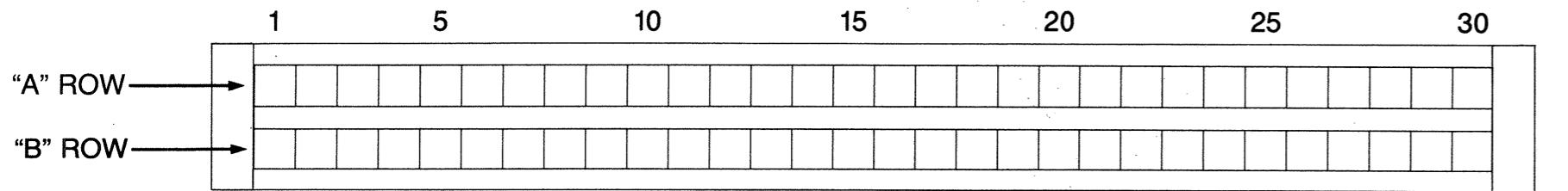
ADJUSTMENT	OPTIONS	SWITCH NUMBER							
		1	2	3	4	5	6	7	8
*RECOMMENDED SETTINGS		OFF	ON	†	OFF	OFF	OFF	OFF	OFF
FLIP PICTURE	NO YES	OFF ON							
**CABINET TYPE	TABLE UPRIGHT		OFF ON						
COIN MODE SETTINGS FOR DIP SWITCH 1	COIN MODE 1 COIN MODE 2			OFF ON					
FREEZE SCREEN	*NO YES					OFF ON			
SECTOR-SELECTION FEATURE	*NO YES						OFF ON		
DEMO MODE	*NO YES							OFF ON	
TEST MODE	*NO YES								OFF ON
SWITCH 4 (not used)					OFF				

*recommended setting

**For upright games, select ON for switch 2. Table games require OFF for switch 2.

[†]For games with a single coin selector or 2 selectors of the same value, S3 must be turned off. For games with selectors for 2 different coin values, S3 must be turned on.

CONNECTORS CN1 & CN2



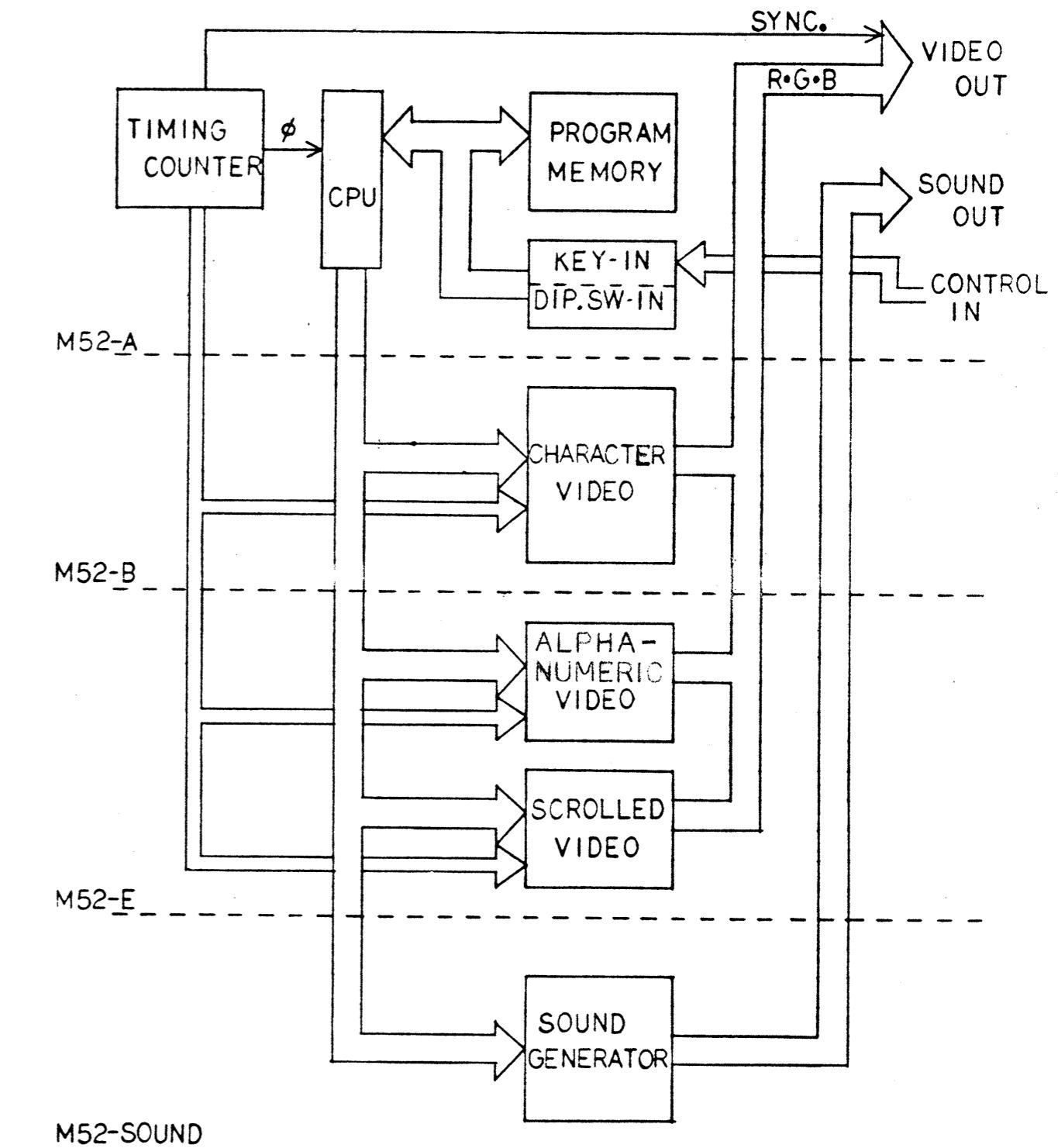
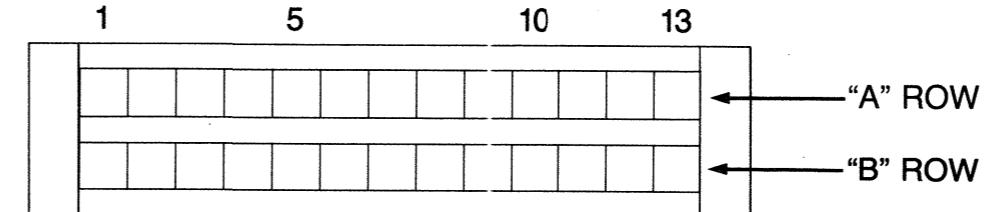
SURFACE FACING PC BOARD

Connector CN1		Connector CN2	
PIN NO.	DESCRIPTION	PIN NO.	DESC.
1A	6 MHz	16A	VE2
1B	†ANPR	16B	GND
2A	6 MHz	17A	VE4
2B	N.C.	17B	GND
3A	7 HB	18A	VE8
3B	N.C.	18B	GND
4A	7 HB	19A	VE16
4B	†CPR	19B	GND
5A	HBLB	20A	VE32
5B	BLUE	20B	GND
6A	HBLB	21A	VE64
6B	RED	21B	GND
7A	VBLB	22A	VE128
7B	GND	22B	GND
8A	VBLB	23A	DB0
8B	GND	23B	HE1
9A	VB1	24A	DB1
9B	GND	24B	HE2
10A	VB128	25A	DB2
10B	GND	25B	HE4
11A	GREEN	26A	DB3
11B	GND	26B	HE8
12A	C-FLIP 1	27A	DB4
12B	GND	27B	HE16
13A	C-FLIP 2	28A	DB5
13B	GND	28B	HE32
14A	FLIP	29A	DB6
14B	GND	29B	HE64
15A	VE1	30A	DB7
15B	GND	30B	HE128

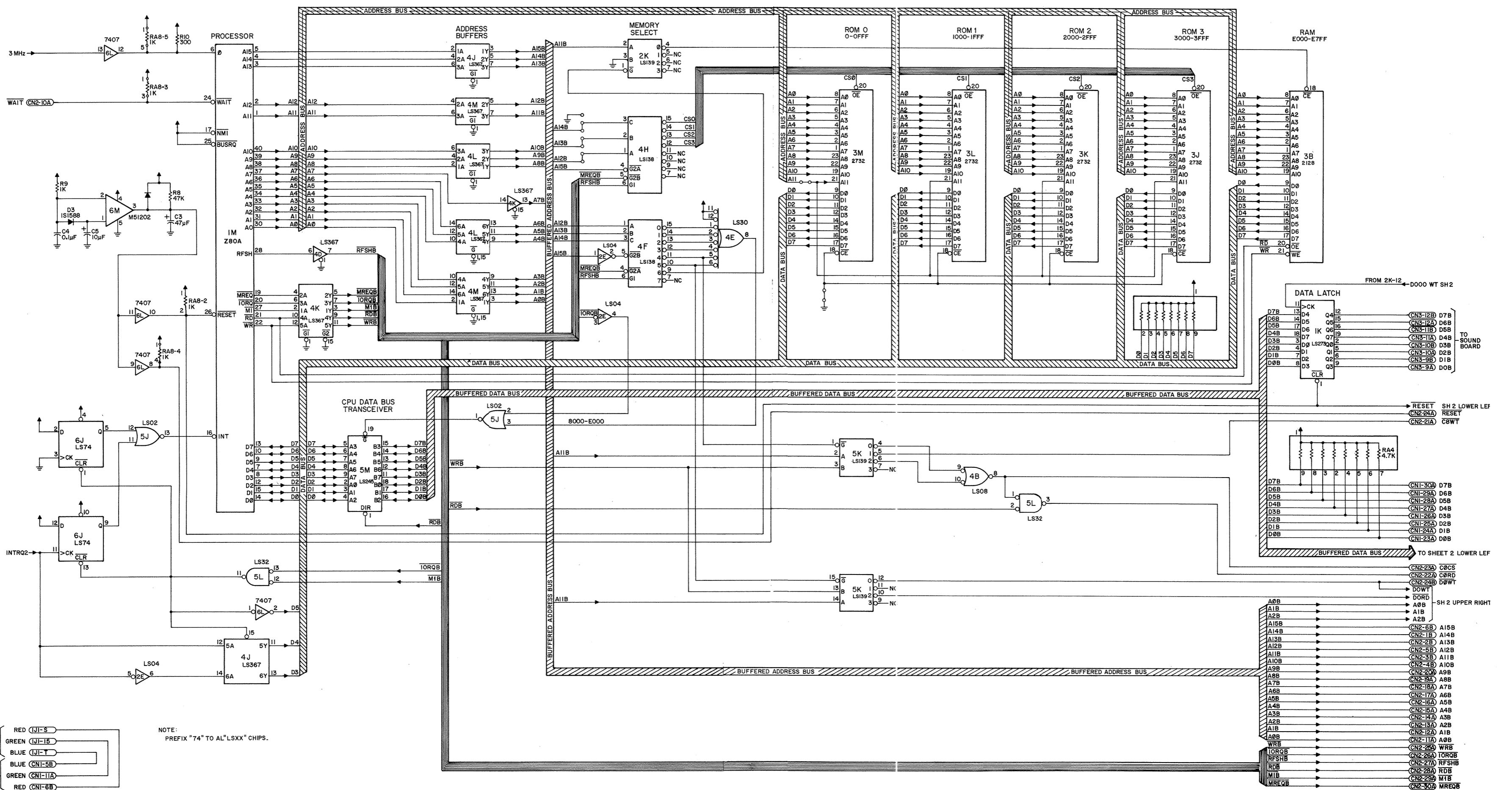
†ANPR = ALPHA NUMERIC PRIORITY

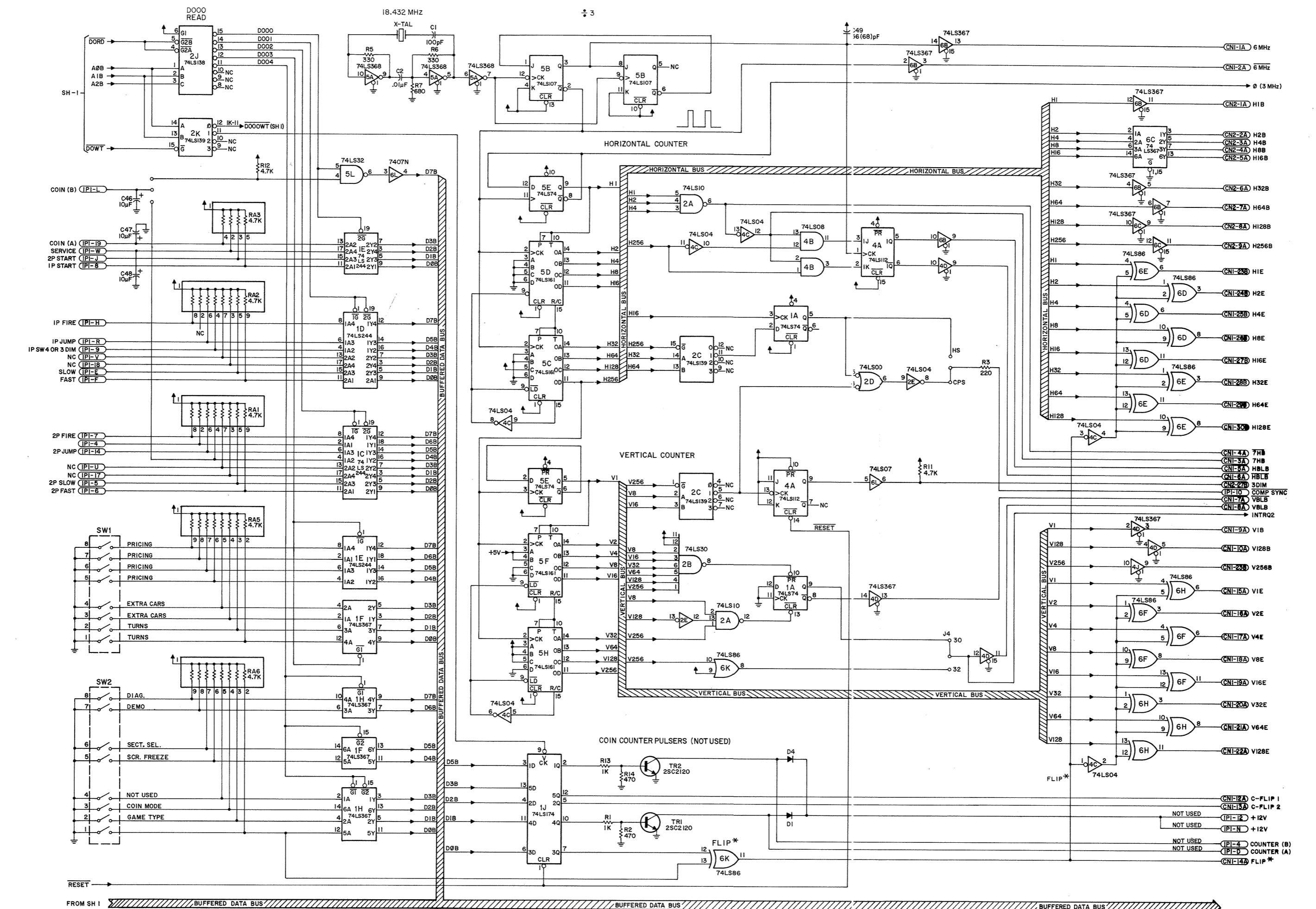
†CPR = CHARACTER PRIORITY*

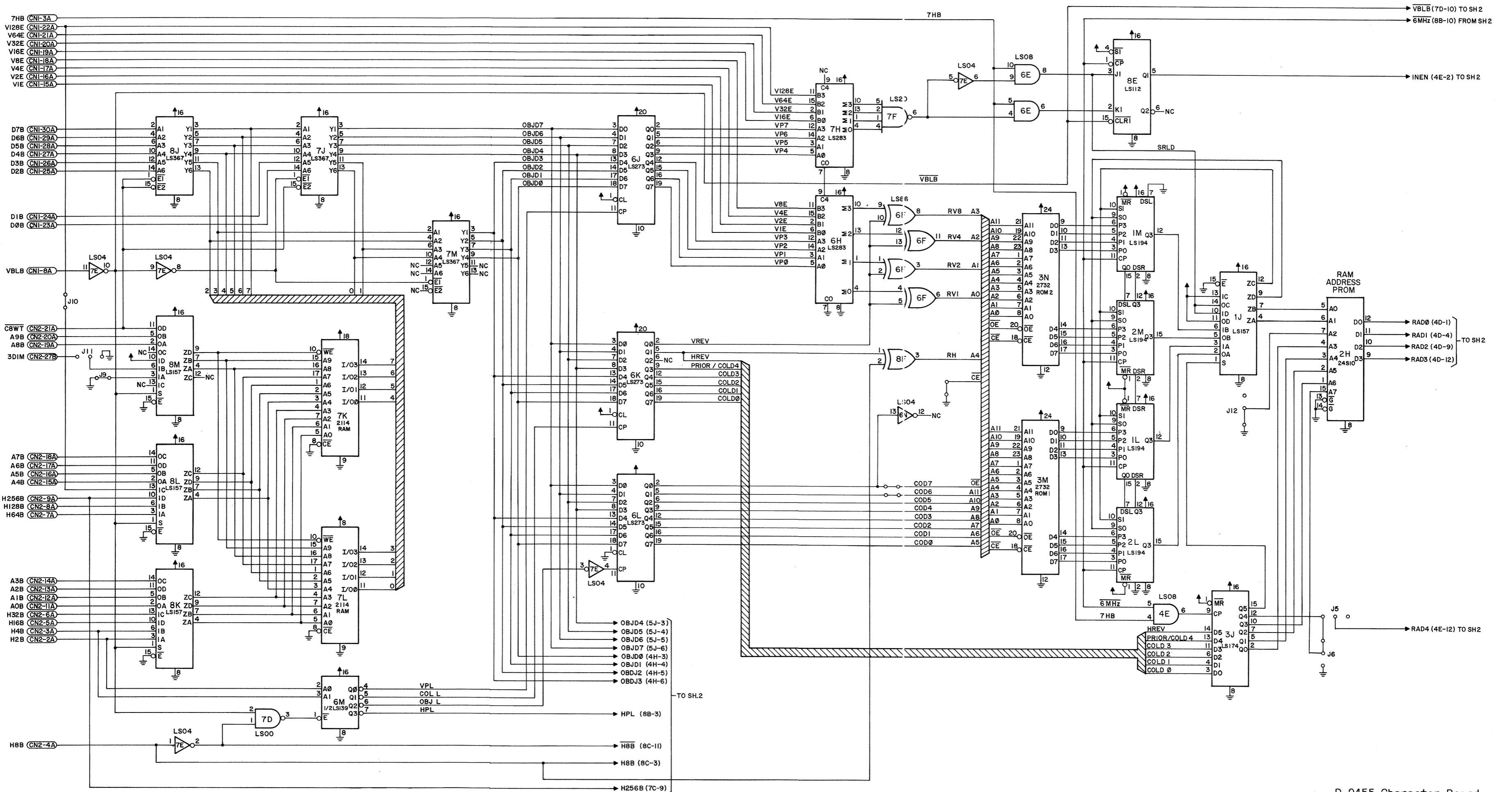
CONNECTOR CN3

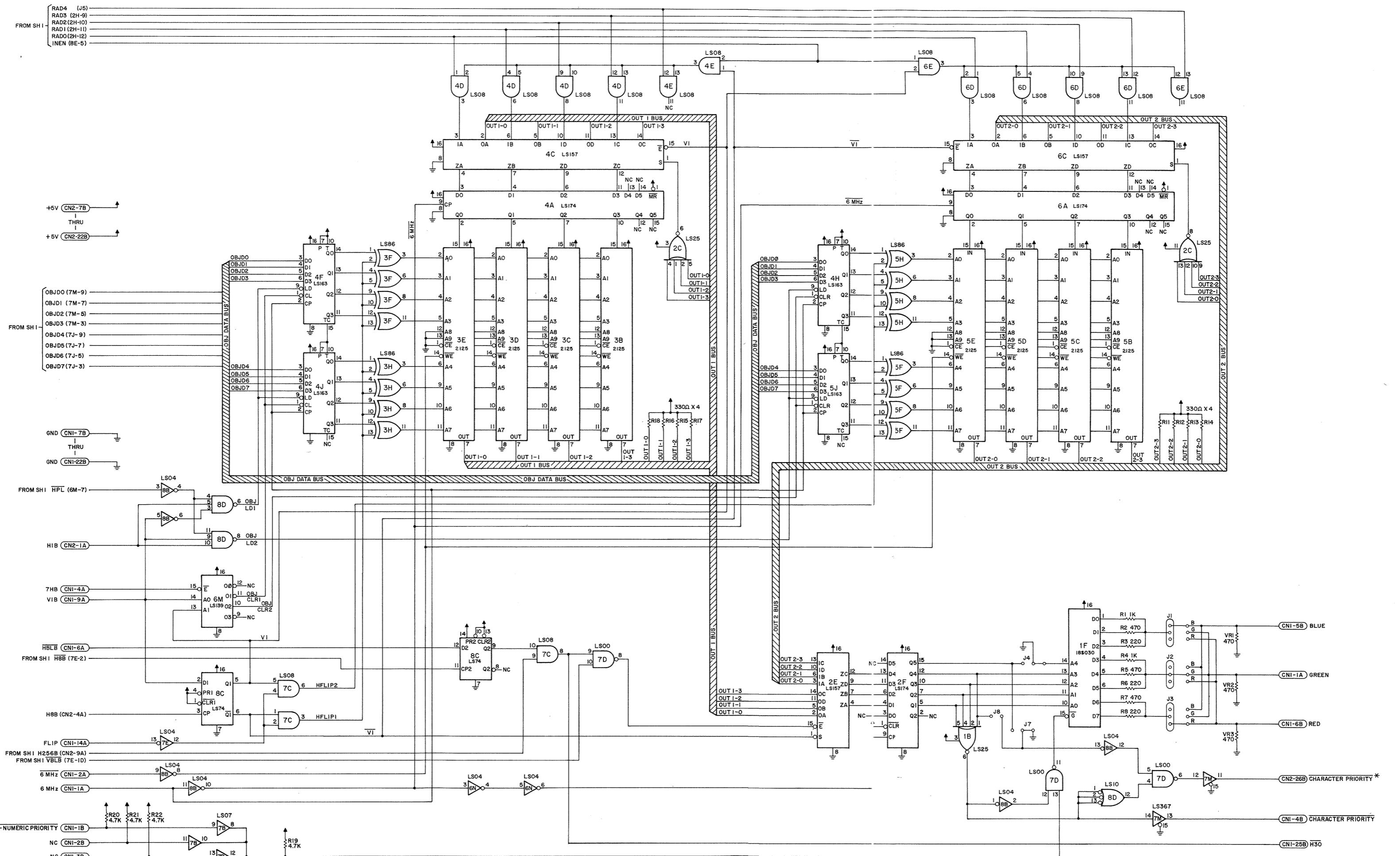


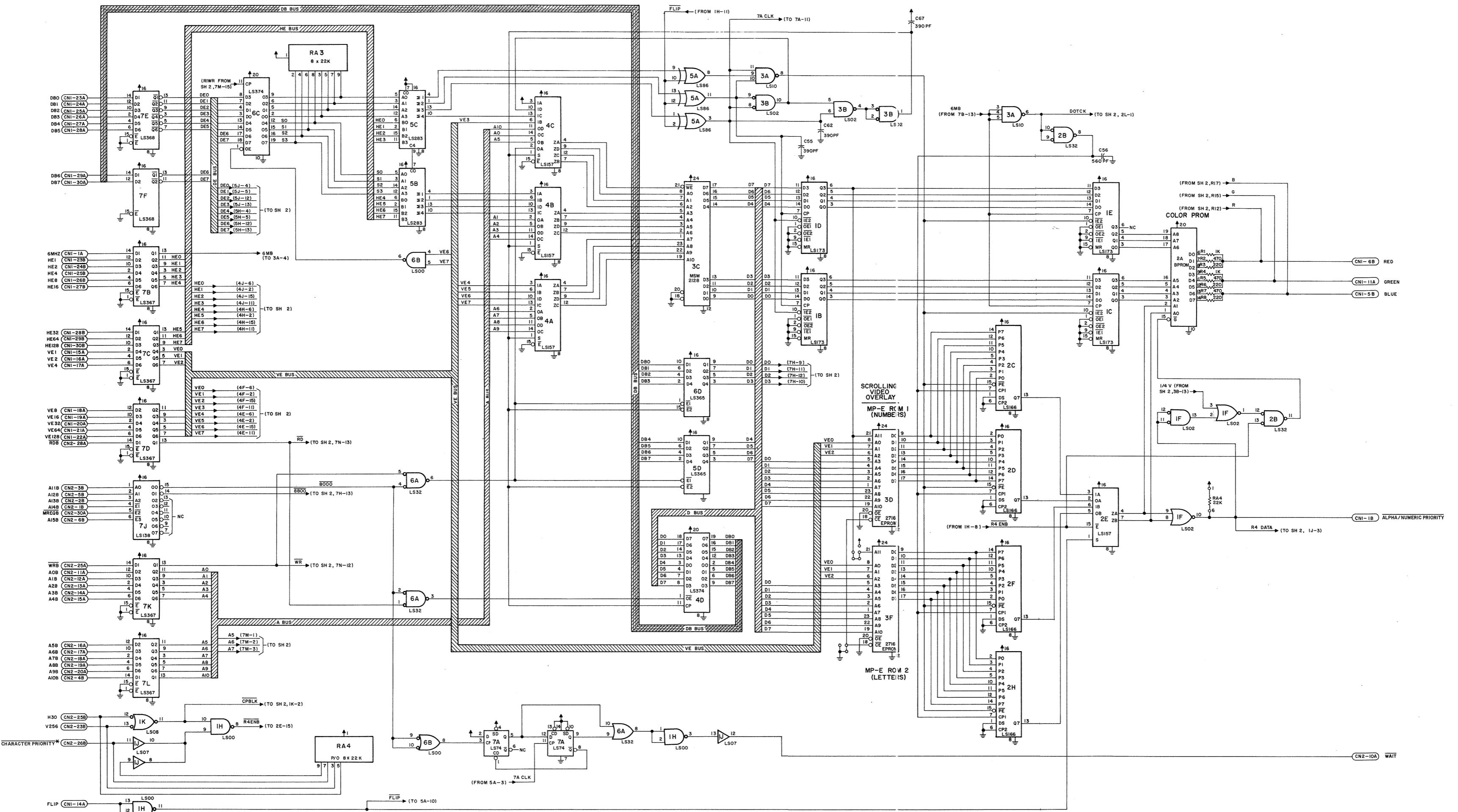
M52-SOUND



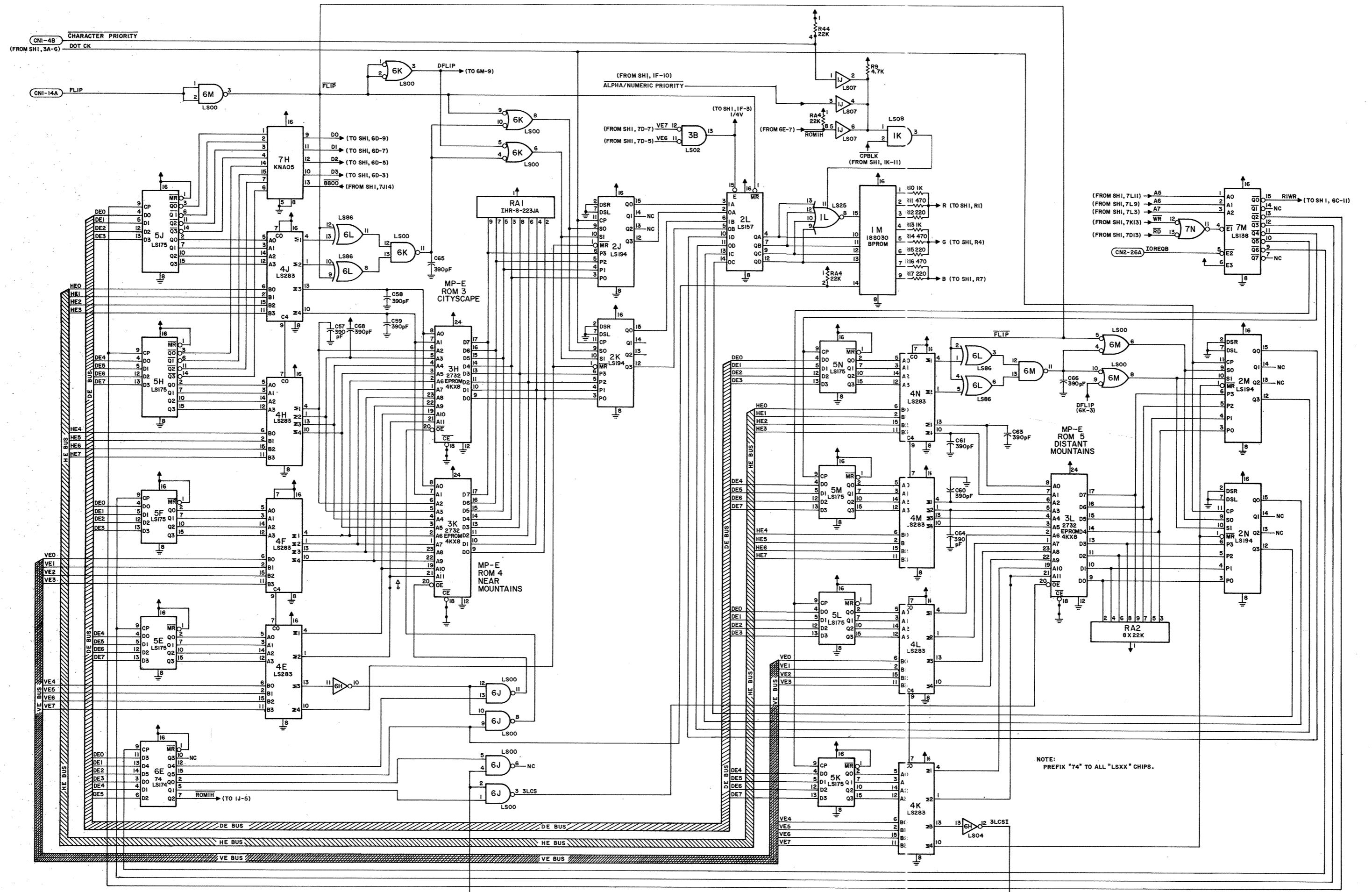


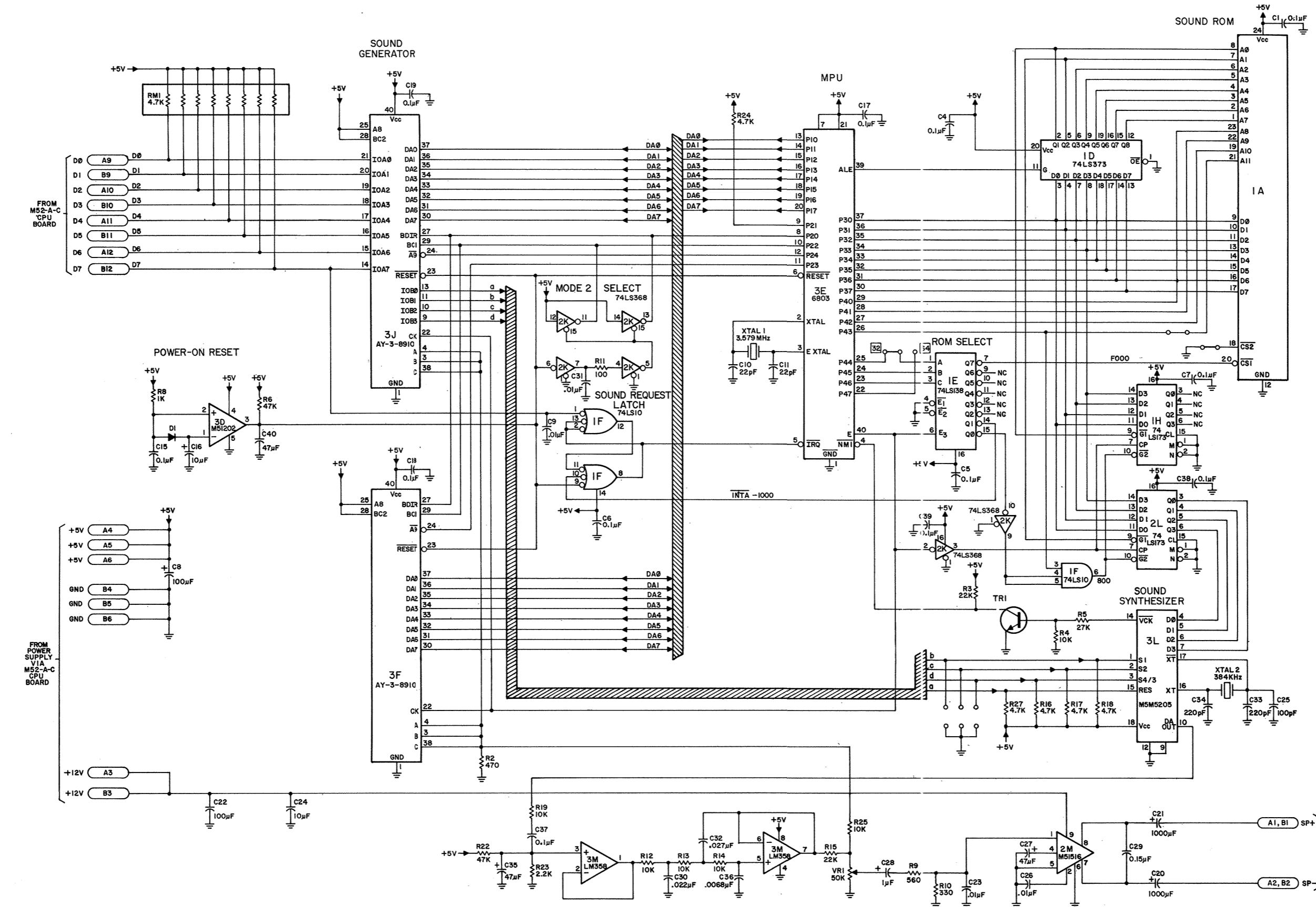




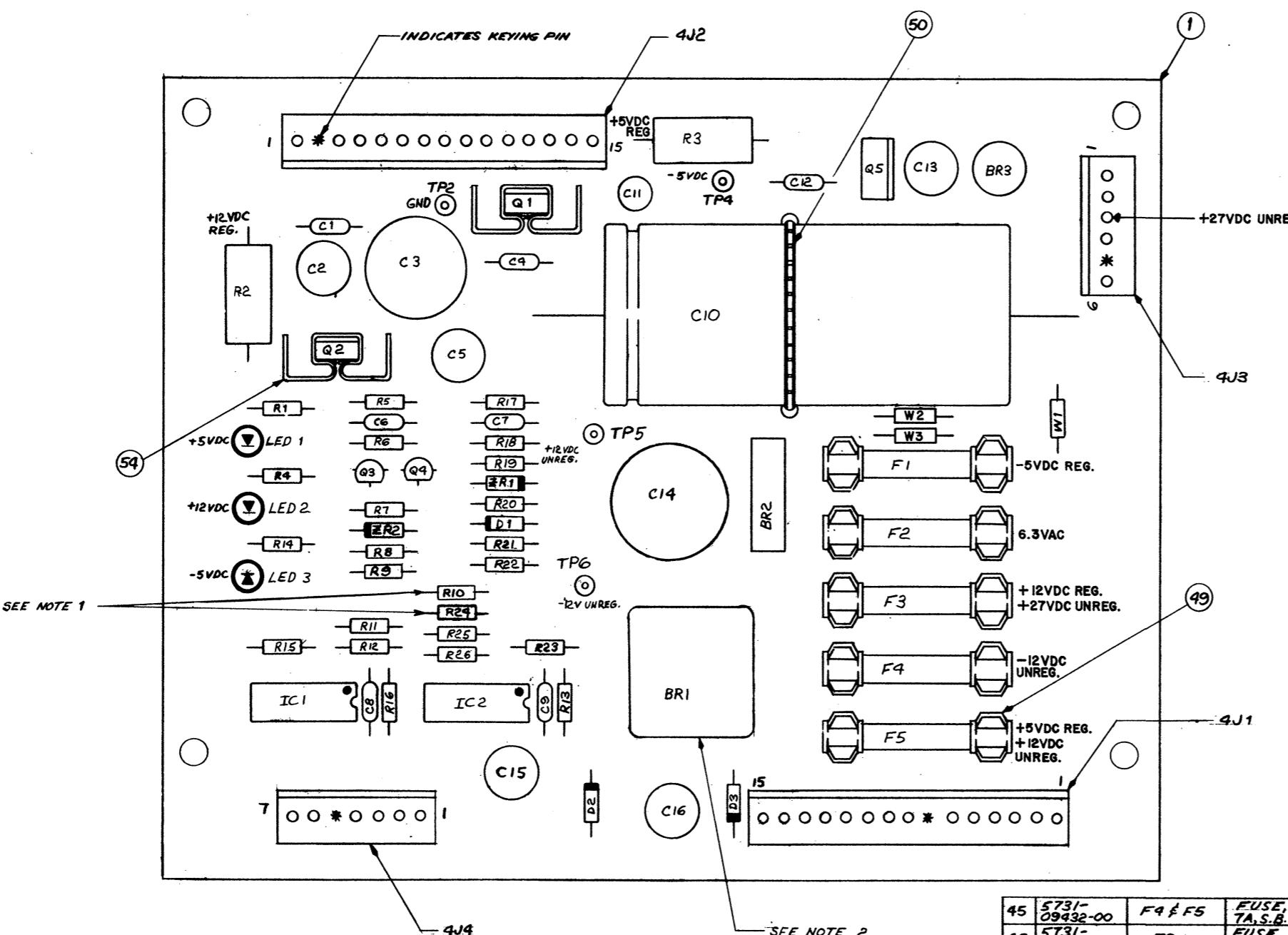


-9456 Scrolling Video Board
(M-52-E-C) Sheet 1 of 2





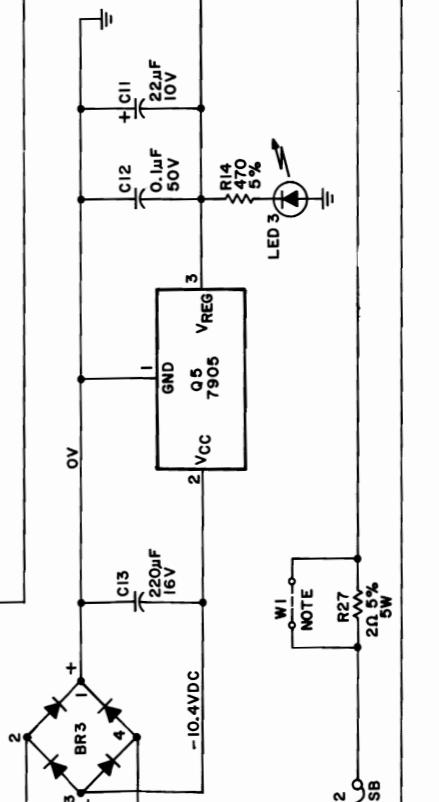
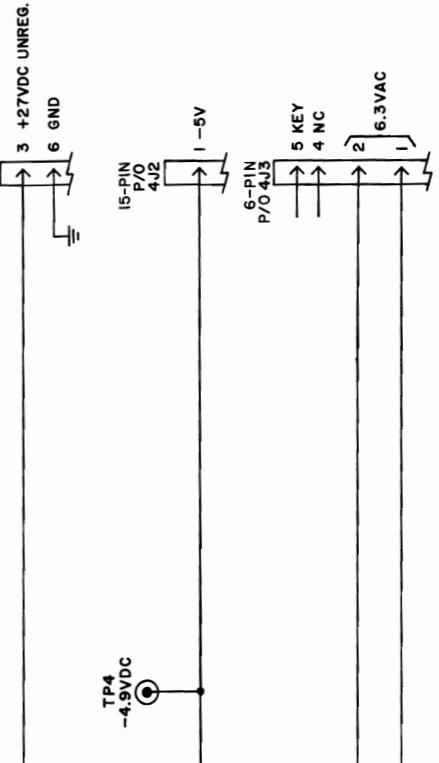
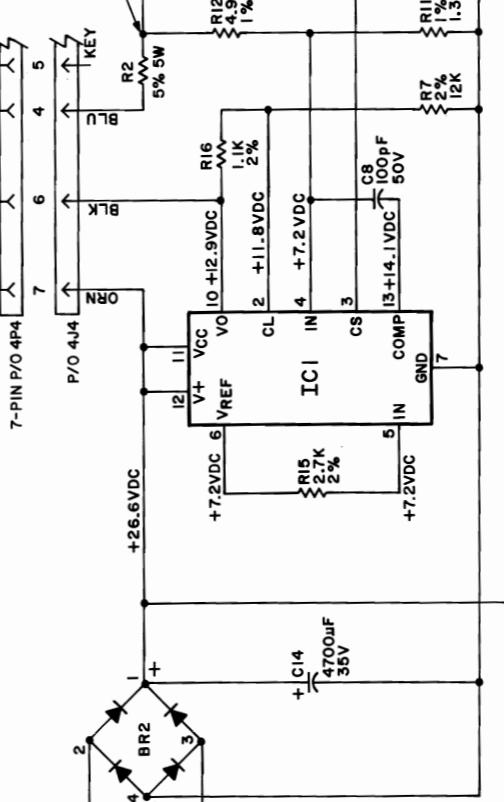
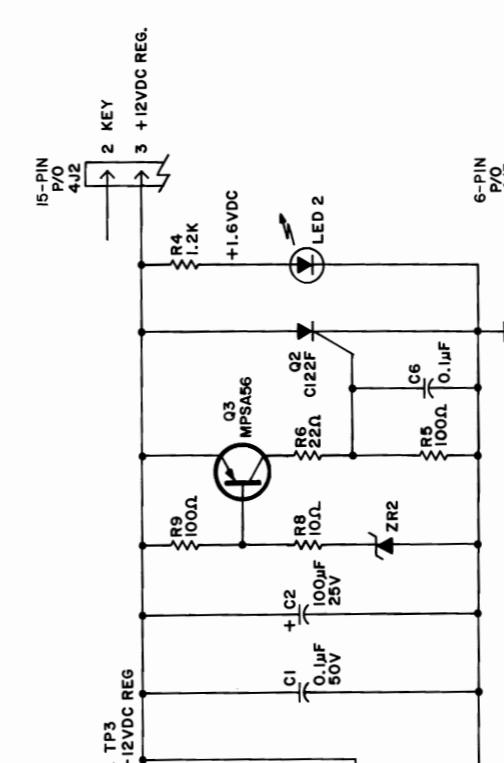
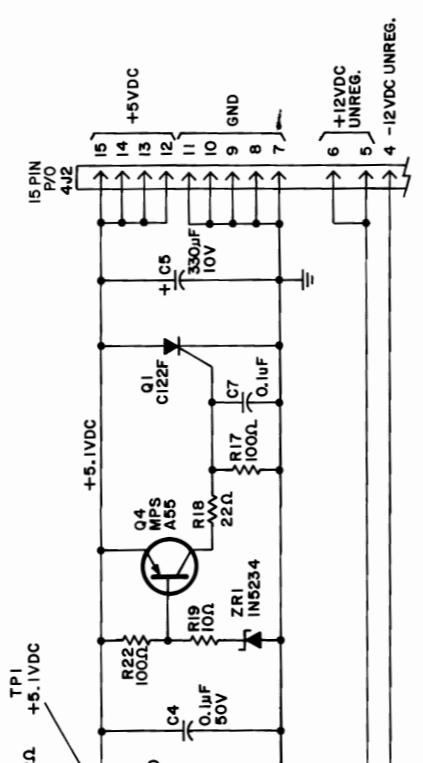
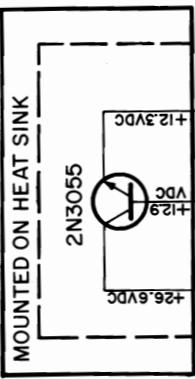
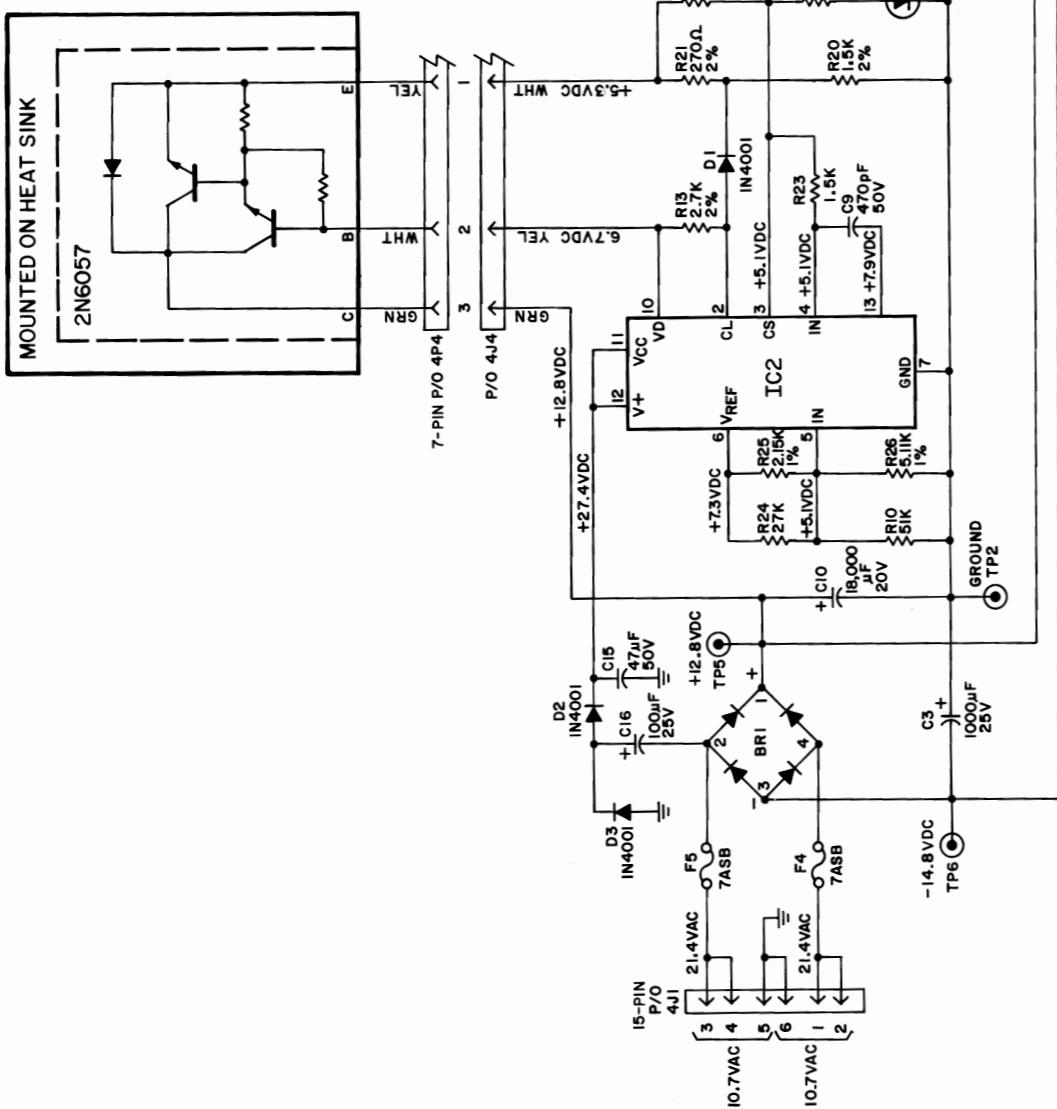
C-9457 Sound Board
(M-52-SOUND-C)

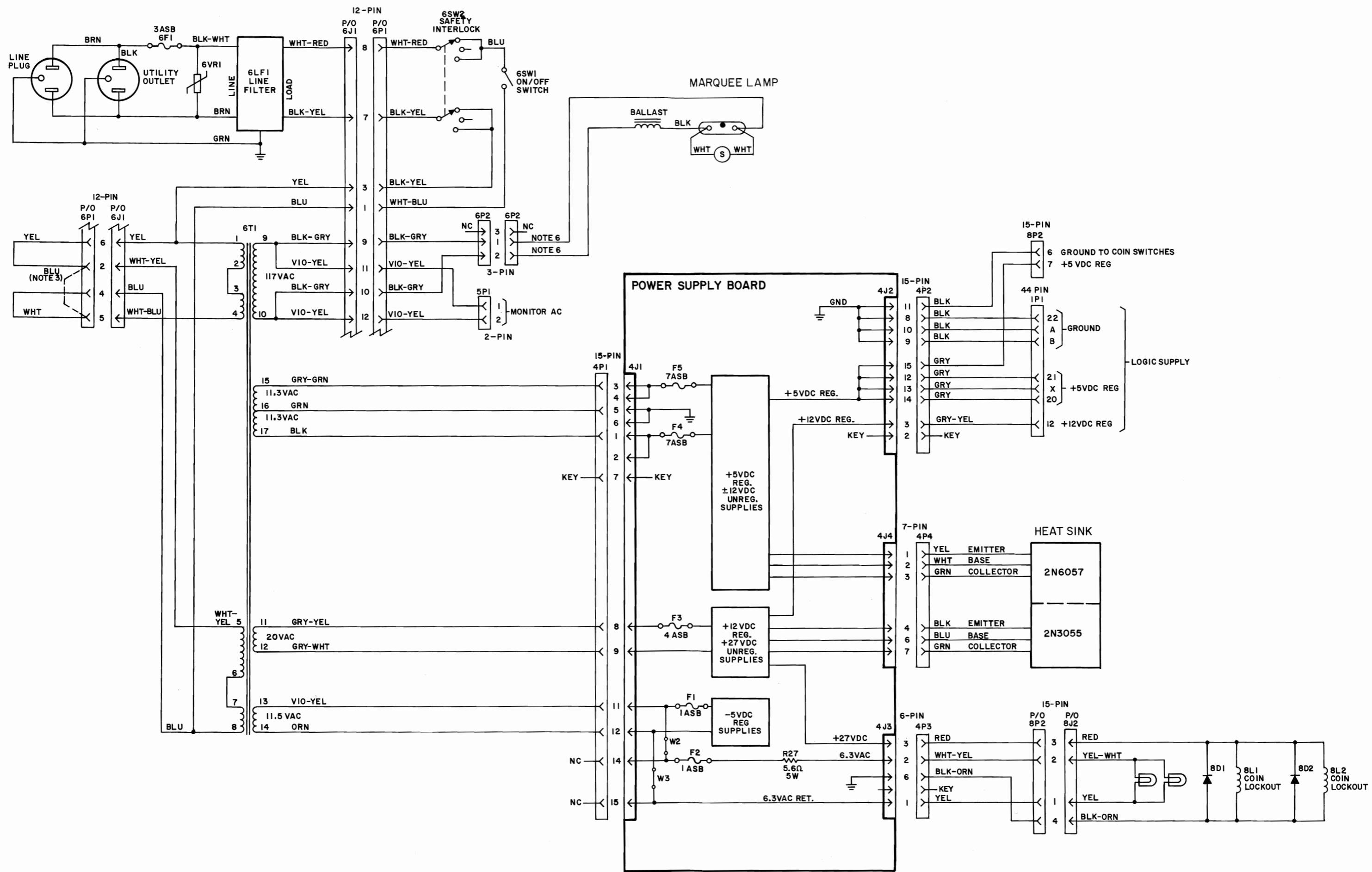


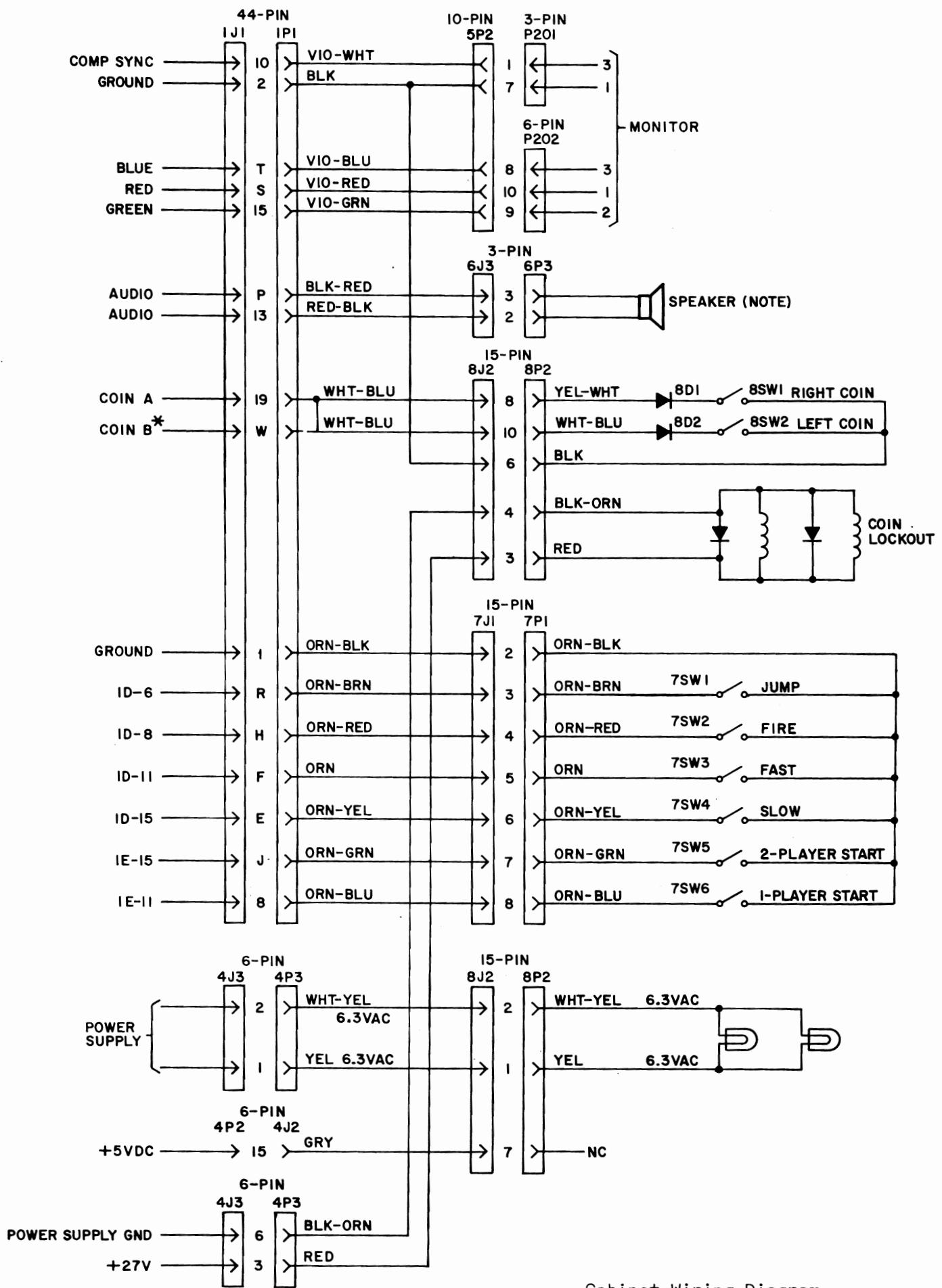
ITEM NO.	PART NO.	PART DESIGNATION	DESCRIPTION	REQ'D NO.
55	5010-09688-00	R10	RESISTOR C.F. 51K ±5% 1/4W	1
56	5010-09324-00	R24	RESISTOR C.F. 27K ±5% 1/4W	1

BILL OF MATERIAL				
ITEM NO.	PART NO.	PART DESIGNATION	DESCRIPTION	REQ'D NO.
1	5773-09679-00		BARE PC. BOARD	1
2	5010-09085-00	R23	RESISTOR, 1.5K 5%, 1/4W	1
3	5010-09341-00	R13, R15	RESISTOR, 2.7K 2%, 1/4W	2
4	5010-09508-00	R21	RESISTOR, 870Ω 2%, 1/4W	1
5	5010-09428-00	R20	RESISTOR, 1.5K 2%, 1/4W	1
6	5010-09509-00	R16	RESISTOR, 1.1K 2%, 1/4W	1
7	5010-09510-00	R7	RESISTOR, 1.2K 2%, 1/4W	1
8	5010-09319-00	R4	RESISTOR, 1.2K 5%, 1/4W	1
9	5010-09416-00	R1, R14	RESISTOR, 470Ω 5%, 1/4W	2
10	5013-09542-00	R11	RESISTOR, 7.32K 1%, 1/4W	1
11	5013-09427-00	R12	RESISTOR, 4.99K 1%, 1/4W	1
12	5013-09426-00	R25	RESISTOR, 2.15K 1%, 1/4W	1
13	5012-09429-00	R3	RESISTOR, 1.12Ω 5%, 5W	1
14	5012-09512-00	R2	RESISTOR, 27Ω 5%, 5W	1
15				
16	5013-09665-00	R26	RESISTOR, 5.1K 1%, 1/4W	1
17	5010-09434-00	R6, R18	RESISTOR, C.R. 22Ω ±5% 1/4W	2
18	5010-09036-00	R5, R9, R17, R22	RESISTOR, C.F. 100Ω ±15% 1/4W	4
19	5010-09039-00	R8, R19	RESISTOR, C.F. 10Ω ±5% 1/4W	2
20	5010-09534-00	W1	RESISTOR, 0Ω	1
21	5043-08996-00	C6, C7	CAPACITOR, 0.1 μF CERAMIC +20% -20% 50V	2
22	5040-09421-00	C2, C16	CAPACITOR, 100MFD 25V RADIAL +50% -10%	2
23	5040-09422-00	C15	CAPACITOR, 47MFD 50V RADIAL +50% -10%	1
24	5040-09420-00	C3	CAPACITOR, 1000MFD 25V RADIAL +75% -10%	1
25	5040-09519-00	C10	CAPACITOR, 18,000MFD 20V AXIAL +75% -10%	1
26	5040-09423-00	C5	CAPACITOR, 330MFD 10V RADIAL +50% -10%	1
27	5040-09504-00	C14	CAPACITOR, 4700MFD 35V RADIAL +50% -10%	1
28	5043-09446-00	C1, C4 & C12	CAPACITOR, 1MFD 50V AXIAL 250V +20% +80%	3
29	5043-08065-00	C9	CAPACITOR, 470PF 50V AXIAL XTR +10%	1
30	5043-09492-00	C8	CAPACITOR, 100PF 50V AXIAL 52L ± 5%	1
31	5040-09506-00	C13	CAPACITOR, 220MFD 16V RADIAL +50% -10%	1
32	5040-09493-00	C11	CAPACITOR, 22MFD 10V RADIAL +50% -10%	1
33	5070-06258-00	D1, D2 & D3	DIODE, IN4001	3
34	5075-09406-00	ZR1	ZENER, IN5234 ± 5% (6.2V)	1
35	5075-09662-00	ZR2	ZENER, IN5244 ± 5% (14V)	1
36	5130-09430-00	Q3, Q4	TRANSISTOR, MPS455	2
37	5130-09661-00	Q1, Q2	SCR, 8 AMP, 100V	2
38	5250-09515-00	Q5	VOLTAGE REGULATOR, 7905	1
39	5960-09424-00	IC1, IC2	VOLTAGE REGULATOR, 723	2
40	5100-09690-00	BR1	BRIDGE RECTIFIER, 35 AMP, 200V	1
41	5100-09513-00	BR2	BRIDGE RECTIFIER, 4.0A, 50V	1
42	5100-09515-00	BR3	BRIDGE RECTIFIER, 1.0A, 50V	1
43	5671-09519-00	LED, LED2, LED3	LED, RED	3
44	5624-09298-00	TP1 - TP6	TERMINAL #1502-1 (TEST POINT)	4

(A)







Cabinet Wiring Diagram